

Mac of all trades

Outstanding technician captures the heart and respect of all.

2

"Yes...but" budget presents challenges

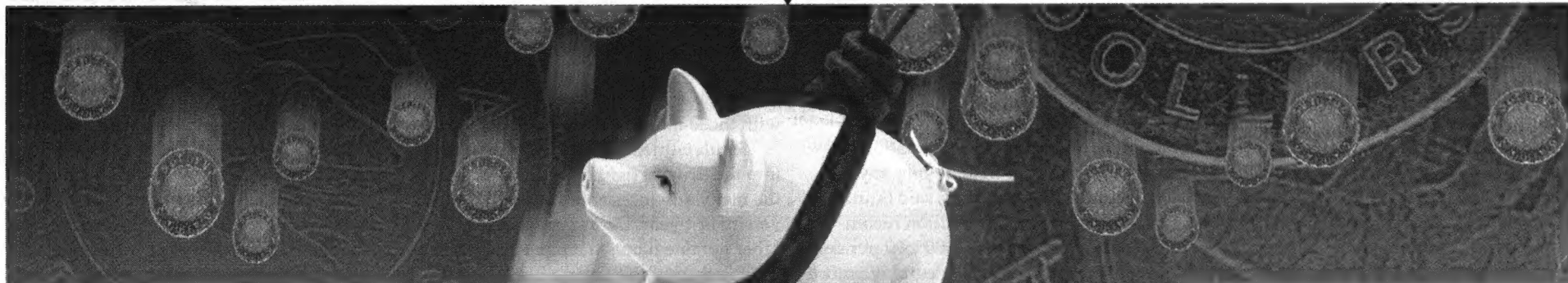
Money is pouring into the U of A but we're still cash poor.

3

Apples for the teachers

1999 Rutherford Award winners for excellence in undergraduate teaching.

6



UNIVERSITY OF ALBERTA

folio

Volume 36 Number 18

MAY 21, 1999

<http://www.ualberta.ca/folio>

Reaching out to Ghana with nursing expertise

Faculty of Nursing helps secure University of Ghana graduate project

By Sheila Soder

The U of A's Faculty of Nursing has stepped in to help stem the threat of an acute shortage of nurses in Ghana, a country battling a maternal mortality rate 123 times that of Canada and where diseases such as malaria, cholera and typhoid still threaten lives everyday.

Thanks to the partnership with the University of Alberta, Ghana will soon have the first and only graduate nursing program in West Africa. A \$750,000 grant from the Canadian International Development Agency (CIDA) will support a five-year program between the U of A and the University of Ghana (UG).

"This is a very important partnership and a tremendous challenge," says Dr. Marilyn Wood, dean of the Faculty of Nursing. "The UG and the U of A will be partners in course development, teaching, research and thesis supervision."

While the UG has an extensive undergraduate nursing program since 1963, the problem, says Dr. Linda Ogilvie, is faculty retention. "[UG] has been sending a number of students overseas [for

The University of Ghana has been sending students overseas for training. The problem is, they do not tend to go back.

— Dr. Linda Ogilvie



Extending U of A expertise to Ghana: (clockwise from top left) Dr. Linda Ogilvie, Karen Mills, international consultant, Dr. Pamela Brink and Dr. Phyllis Giovannetti.

training]," says Ogilvie, the project director in Canada with the U of A's International Nursing Centre. "But they do not tend to go back."

As a result, the sustainability of the undergraduate nursing program was at risk. Without partners such as the U of A and CIDA, the school would have shut down.

"The goal is to have all faculty at UG trained at the master's level," says Ogilvie. Those trained will then be moved into the country's educational system and clinical administrative positions. "We are educating the educators."

The project was initiated by UG because of what Ogilvie calls "a strong Canadian connection." Both institutions have been exchanging students and faculty for 10 years, and one of the current faculty members at the UG, Mary Opare, is an alumna of the U of A.

"The Faculty of Nursing is committed to internationalization," says Dr. Phyllis Giovannetti, associate dean (graduate) and a member of the U of A's management team. "This project is a step in that direction. A mix of international students is seen as a huge benefit."

Two Ghanaian faculty members will come to the U of A in January 2000 to develop first-term courses, which will be presented in Ghana to students in August. In June 2000, two U of A faculty will then travel to Ghana to develop the second-term courses, to be implemented February 2001. The initial intake in the graduate program is estimated at five or six students.

"It is a rather unique relationship, because not one of our faculty will be teaching in Ghana," says Giovannetti. "We are capacity building; by teaching



At the University of Ghana: (from left) Ernestina Donkor, Linda Ogilvie, Felicia Darkwah, Joanna Laryea, Ayodele Akiwumi, Mary Opare.

UNICEF'S 1998 STATE OF THE WORLD'S CHILDREN REPORT

	Canada	Ghana
GNP	US \$19,380	US \$390
Infant Mortality Rate	6/1,000	70/1,000
Under Age 5 Mortality Rate	7/1,000	110/1,000
Maternal Mortality Rate	6/10,000	740/10,000
Adult Literacy Rate	97%	65%

»» quick »» facts

TOP MEDICAL CONCERNS IN GHANA:

- Malaria
- Accidents (car, indigestion of kerosene)
- Respiratory Tract Infections (especially pneumonia)
- Gastroenteritis
- Ante-natal (prior to birth)
- HIV
- Typhoid
- Cholera

• Source: Dr. Linda Ogilvie, Faculty of Nursing

»» quick »» facts

the teachers, they will be developing a first class graduate program."

The UG team consists of six faculty members, three of whom are currently retired but are returning to service for the project. Three received their training from Canadian institutions. In addition to Ogilvie and Giovannetti, the U of A management team consists of Dr. Pamela Brink and Associate Professor Karen Mills.

As well as "the Canadian connection," the U of A was chosen for its extensive leadership role in graduate nursing programs. The master of nursing program has been offered since 1975 and the PhD in nursing since 1991. The U of A currently has more than 50 doctorally prepared faculty members.

The project is funded by CIDA and administered by the Association of University Colleges of Canada. ■

U of A impact extends beyond campus borders

Vice-President (Research and External Affairs) lauds university to provincial committee

By Phoebe Dey

The benefits of the University of Alberta stretch far past the scope of students, staff and administrators to create a profound economic impact in Edmonton and the country, the university's Vice-President (Research and External Affairs) Roger Smith told a legislative committee recently.

"Yes, we're creating jobs but we're also contributing to the quality of life," said Smith during his talk. "We should all sit and think about what Edmonton or Calgary would be like if we didn't have the cultural, literary or artistic sources generated by the institutions."

Smith spoke to the standing policy committee on jobs and economy, an annual initiative by the university to make the government aware of what it receives for its dollars.

The U of A improves the lives of Albertans by creating jobs and stimulating economic activity, developing academic and research programs at the highest skill and knowledge levels, creating spin-off companies and achieving international research recognition with accompanying alumni and private support, said Smith.

Of the school's \$715 million recommended budget for 1999/2000, 90 per cent is spent locally. U of A also employs more than 9250 employees with a payroll of \$353 million.

"That is \$75 million in taxes," he said. "We also have to think of students as buyers, with 4600 coming from outside of the province, who are spending money here."

Smith reminded the committee of the highly-skilled workforce developed from the university since the U of A produces

about 6300 graduates a year. As a research-based university, the school is also attracting the best and brightest people from all over the world, said Smith. And along with those minds, comes money.

Smith named Dr. Lorne Tyrrell work into the drug to fight hepatitis B as one of the many advances announced by the university last year. Dr. Wayne Grover is another notable name that has attracted \$5 million through TRILabs, a communications-based spin-off company, said Smith.

"Over three million people in the world benefit from Lorne Tyrrell and his hepatitis discoveries," said Smith, adding Tyrrell has attracted \$11 million to the university. "We're very proud of our spin-offs."

Eric Newell, chair of the university's Board of Governors as well as chair and CEO of Syncrude, reinforced to the committee the

economic contribution the university makes. "We need to recognize this knowledge-based growth," he said. "Although the people are the most important product the university generates, we haven't done a very good job about what research-intensive universities mean to the economy."

Economic Development Minister Pat Nelson congratulated the university for its world-wide acclaims and encouraged Dr. Smith to continue focusing on research and development to make sure the school has the best possible technology.

"When we work together we achieve the right blend and I think the university is right on track," Nelson told *Folio*. "Their research and technology is recognized world-wide and that's the future. With a provincial population of only 3 million, the university should certainly be proud." ■

Mac of all trades

Award-winning technician captures the heart and respect of his colleagues

By Roger Armstrong

His nickname is Mac but it should be *MacGyver*. Just like the TV character who seemed to be able to invent almost anything using only matches and duct tape, Malcolm McIntyre is a wizard of creativity with apparatus and instruments in the Department of Biological Sciences.

The U of A technician is truly a jack of all trades—and he adds "a master of none." But the truth is, McIntyre is master

of many. He came to the U of A 26 years ago to work as a carpenter. Thanks to learning on the job and taking different courses, McIntyre now oversees renovations, works with electronics, plastics, and machining to repair old instruments and create new ones for data recording—all this while saving the U of A a bundle of money too.

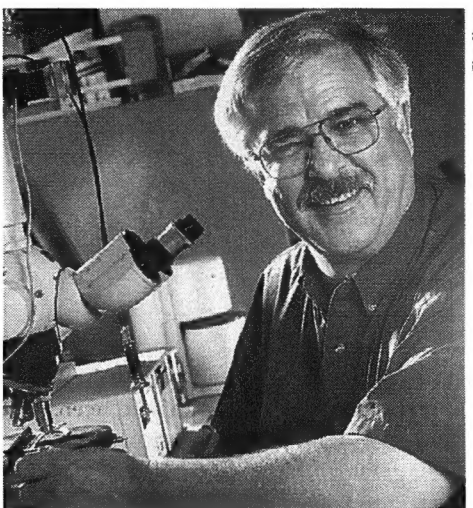
"The guy is just a genius when it comes to thinking about straightforward, inexpensive ways to create things to do, at times, pretty complicated jobs," says Dr. John Spence in biological sciences. "Mac has built incredible machinery that we've used to make measurements that other people can't and don't make. I often think of Mac as an important, creative part of my research." In fact, Spence goes straight to Mac to figure out the best way to gather data for a research project when he doesn't have the funding to do it. More often than not, McIntyre will make something that fits the bill for next to nothing. "I couldn't do what I do without someone like Mac, because I just couldn't afford it," says Spence.

McIntyre has an ability to make replicas of instruments for a fraction of the cost. He put together a vibration-resistant table using cinder blocks, concrete and tennis balls for \$50 that does the same job as a vibration-resistant air table for \$5,000—just one of the countless examples of his money-saving work.

Dr. Bev Mitchell, professor in biological sciences and former chair of entomology, says McIntyre is so much more than just a technician. He also helps train graduate students, teaching them his techniques.

"We regarded him more as a colleague, back in the old entomology days," says Mitchell. While he was overseeing the renovations to the Earth Sciences Building,

He put together a vibration-resistant table using cinder blocks, concrete and tennis balls for \$50 that does the same job as a vibration-resistant air table for \$5,000.



Malcolm McIntyre, 1999 Nat Rutter Outstanding Technician of the Year.

Mitchell relied heavily on McIntyre. "He is the kind of person who can interact not only with faculty members...but he can also work very well with people who were involved in the construction, whether they were the architects or the people actually doing the construction," says Mitchell.

It's no surprise, then, that McIntyre was recently honored with the Nat Rutter Outstanding Technician of the Year Award by the Sigma Xi Research Society. The U of A chapter hands out an award annually to

an outstanding technician. McIntyre is co-author on several published papers and his designs are used by researchers all over the world. "I think one of the greatest benefits of the university is we can do a variety of things and get rewarded for it by our peers," he says.

McIntyre keeps his 'MacGyverness' at work and says he doesn't do a lot of it at home. Instead he spends his time sailing and golfing in the summer and skiing in the winter. He prefers downhill because he likes to use gravity, he says with a smile.

After more than a quarter of a century on campus, McIntyre can't walk from the Biological Sciences Building to Earth Sciences without countless people stopping him to say hello. He feels at home here at the U of A, and he loves his work. He is likely to make many more friends as he continues to amaze researchers with his ability to make a wind tunnel out of some duct tape and straws. ■

The guy is just a genius when it comes to thinking about straightforward, inexpensive ways to create things.

— Dr. John Spence

Anonymous donation to support study of family businesses

By Geoff McMaster

Researchers in the Faculty of Business are planning to explore the fertile and complex relationship between family and business, thanks to an anonymous \$5 million donation.

"There is a real growing interest in this area," says Dr. Lloyd Steier. He and business Dean Mike Percy have been designing what will hopefully be a research centre devoted to understanding family enterprises.

"Family, if we look at commercial activity or businesses, generally plays a large role ... from the mom-and-pop firm right up to some of the very large firms where you start getting into second and third generations, and issues in terms of succession, control and governance."

Broadly speaking "almost every firm has some sort of family issue," says Steier. According to one estimate, family relationships play some role in the power structure of 90 per cent of all firms and more than 30 per cent of Fortune 500 companies are run by families. In Edmonton, most mid-size to large businesses are family controlled, he says.

Aside from understanding how family relationships affect the success or failure of business ventures, Steier and his colleagues will also examine how family firms operate in the growing international arena, as part of a project called the "Internationalization of Family Enterprises."

Although plans have yet to be confirmed, some of the potential uses for the funding include recruitment of additional faculty, international exchanges for faculty and students, student placements in family firms, executives in residence, research and teaching fellowships, research workshops and other professional development activities. ■

folio

Volume 36 Number 18

OFFICE OF PUBLIC AFFAIRS,
400 ATHABASCA HALL
UNIVERSITY OF ALBERTA,
EDMONTON, ALBERTA T6G 2E8

LEE ELLIOTT: Acting Director, Office of Public Affairs
LUCIANNA CICCOCIOPO: Acting Managing Editor
GEOFF MCMASTER: Writer

CONTRIBUTORS:
Roger Armstrong, F.M. Christensen, Phoebe Dey, Barbara Every, Fordyce Pier

GRAPHIC DESIGN:
Susan Hunter, Aidan Rowe, Annie Schroeder

Folio's mandate is to serve as a credible news source for the University community by communicating accurate and timely information about issues, programs, people and events and by serving as a forum for discussion and debate. *Folio* is published 20 times per year.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be printed with acknowledgement.

Inquiries, comments and letters should be directed to Lucianna Ciccocioppo, acting managing editor, 492-0439
lucianna.ciccocioppo@ualberta.ca

Display advertising
Deadline: 3 p.m. one week prior to publication
Katherine Irwin, 492-0444

Classified Ads
Deadline: 3 p.m. one week prior to publication
Cora Doucette, 492-0436

Talks
Deadline: 9 a.m. one week prior to publication.
Brenda Briggs, 492-5044 Fax: 492-2997
public.affairs@ualberta.ca

ISSN 0015-5764 Copyright 1999

University
of
Alberta



...it makes sense

UNIVERSITY
OF ALBERTA
CAMPAIGN

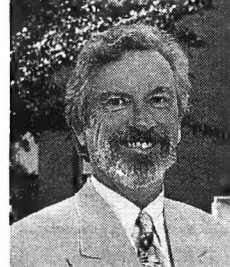
"Yes...but" budget presents challenges

Money is pouring in, but we're still cash poor

By Lee Elliott

The University of Alberta is bringing in more money than ever before. Yes! U of A researchers are attracting record amounts of research funding—a total of one billion over 10 years. The U of A Campaign is setting records with \$167 million in donations and pledges. And endowment income has more than doubled over seven years to an expected \$24.4 million in 1999/00.

We have also been successful in attracting money for new buildings—something the U of A hasn't seen much of for 15 years. (See Major Capital Projects, page 4) In total, the 1999/00 budget projects spending \$714 million, thanks to new money for exciting initiatives.



Dr. Doug O'ram, vice-president academic and provost

"We are doing tremendously well by most measures," says Vice-President Academic and Provost Doug O'ram. "In terms of recruiting strong students, increasing our research grants, the capital campaign and headway with the government that's shown up in some of the recent Access funding...the direction is now positive."

But...

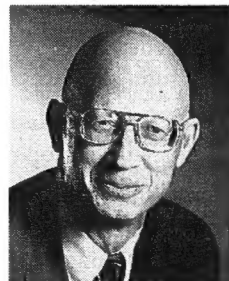
There are strings attached. Some new money requires matching grants and almost all of it is tied to specific projects. Not enough is left for the operating budget—the day-to-day expenses.

RESEARCH RICH, CASH POOR

Ironically, our success in attracting research dollars is part of the problem. Vice-President (Research and External Affairs) Roger Smith estimates the university spends \$0.50 in indirect costs for every dollar of sponsored research funding it receives. Last year that translated to \$25 million that needed to be found in the operating budget for the \$50 million received

in grants from federal councils.

"Each research grant creates the need for more space, more heat, light, cleaning and other building services, more account keeping, more library and technical services," says Dr. Smith.



Dr. Roger Smith, vice-president (research and external affairs)

"Deans scramble for space and pressure for services grow. Somehow we make do. But the cost is real and resources for all purposes are more thinly spread."

It also threatens our competitive position. Public universities in the USA receive an average of 48 per cent for indirect costs from the National Science Foundation, and Quebec and Ontario reward universities for grant success with some funding for indirect costs. "We do say no to contract research and to some grants when we are convinced that recognition of indirect costs is insufficient," says Smith. "Grants from NSERC, MRC, and SSHRC, however, are essential for basic research and the strength of this university. It is difficult to imagine that we would say 'no' to accepting such support."

Our willingness to invest in successful research programs attracts both faculty and students, says Smith. "It leads to international recognition, spin-off and licensing activity, and this in turn generates support from our communities, including the provincial government." However, "failure to recognize indirect costs means we have less suitable space and services, and are more poorly positioned to take on new research and teaching initiatives."

THE SIREN CALL OF BIG BUCKS DOWN SOUTH

The tight operating budget threatens faculty recruitment efforts as well. The U of A ranks 16th out of 18 Canadian universi-

ties for faculty salaries and US salaries put all Canadian universities to shame. Dr. O'ram says eight deans report they can no longer compete and all deans report having at least one faculty member lured away.

Dr. Ken Norrie, chair of the Department of Economics and incoming dean of arts, says his department was zero for five this year. "We made three offers at the junior level and they were all turned down." He tried recruiting two other individuals who decided not to apply when a lucrative offer hit them first.

Competition like the US Federal Reserve Board, which hired two, is tough to take on. But one prospect was lured to another Canadian university "not as good as we are," says Norrie. That individual is starting at what would be the full professor range at the U of A and won't have to assume a full teaching load until his fourth year.

O'ram says faculty members have been offered positions at Columbia, Harvard and Stanford with excellent salaries and significant equipment grants. "Matching those things is very expensive. So is trying to make a counter offer so we can keep some of these people," says O'ram.

SO WHAT DO WE DO NOW?

This year, the Board of Governors voted to change the rules for cash reserves allowing the U of A to draw \$3.4 million into the operating budget and holding cutbacks at bay. Next year, the U of A won't have that option and without increased operating funding, no matter how one adjusts projections for variables like contract settlements and tuition hikes, the spectre of future cuts is real.

"If I took only the most extreme needs of the faculties," says O'ram, "discounted all the things I'd like to happen but looked at where they are really desperate, we are probably talking about the needs for four or five million more. That's just at the extreme in terms of filling holes, handling overloads in teaching and major space issues."

Even if we can continue to scrape by and avoid cuts, "It means we have very little room to add strategic positions where really good ideas have come out, or do the sort of things we'd like to be able to do."

However, O'ram is optimistic. "I think we've done some good things in the last couple of years. If you look at the view of government towards us, we have come a long way up their agenda from where we were 48 or even 24 months ago," he says. The Growth Summit helped put advanced education on the government agenda and while "funding increases have been modest, at least they've been positive," says O'ram. "I really do think that we're very close to convincing government that if they're going to build the province they

want, they're going to have to put the money into advanced education, especially in the areas of research and teaching, which means the university...I think if we can keep the student/faculty alliance together and continue to demonstrate to government that it's important to do this, we may see some breakthroughs in the next budget...of course that depends on the price of oil."

The U of A is also part of a larger lobby, says Smith. "We are continually and forcefully bringing the problem to the attention of federal and provincial authorities." It is on the agendas of AUCC, CFI and the national granting councils, says Smith, and vice-presidents (research) from the three Alberta universities have met with Ministers Taylor and Dunford to discuss the problem. "This issue continues to require a full-court press," says Smith.

SO WHY STAY

"People, I hope, recognize that the direction is positive for them here," says O'ram. "There are advantages to living in Canada, there are advantages to being in a Canadian university and we're going to try to make it as exciting and interesting for them to be here as we possibly can." That doesn't mean the U of A will be able to compete dollar for dollar with the Americans, he says. However, "I think the university's trajectory has been good given the restraints in funding. If the restraints in funding come off a little bit, then we can really have an exciting time here." ■

Folio's focus on the budget continues on page 4 with words from Board of Governors Chair Eric Newell and a look at workplace stress with Glenn Harris, vice-president (finance and administration).

WHAT'S COMING IN...

RESEARCH FUNDING

	1993/94	1994/95	1995/96	1996/97	1997/98
	87.2 M	94.5 M	104.6 M	112.5 M	136.3 M

DONATIONS

	1992/93	1995/96	1997/98	1998/99	1999/00
	9.2M	10.3M	22.3M	21.2M	34.5M

Note: Campaign gifts commonly take the form of multi-year pledges and are often endowed. Of the \$34.5 million expected in 1999/00, only \$7.5 will be available to spend immediately. The rest is endowed and policy prevents spending more than five per cent of endowed funds annually.

ENDOWMENTS

	1992/93	1995/96	1997/98	1998/99	1999/00
market value	207.6M	279.8M	436.2M	460.0M	495.2M
5% allowed to spend annually	10.6M	12.9M	17.4M	21.6M	24.4M

OK TIRE STORES
IT'S THE "OK" DIFFERENCE

7619-104 Street, Edmonton, AB T6E 4C3

Bus: 433-8588 Fax: 439-4812

U OF A EMPLOYEE DISCOUNT AVAILABLE!



Payment Terms & Financing Available
O.A.C.



Full Mechanical Service

- Alignment
- Batteries
- Brakes
- General Repair
- Lube Oil
- Safety inspection
- Shocks
- Tune-ups



Rick Comrie

Toward a knowledge-based economy

Productivity and education in a more challenging world

By Eric Newell, chair, Board of Governors/chair and CEO, Syncrude Canada

Excerpted from an address at Choices for Tomorrow, 1999 Progressive Conservative policy conference, April 24, in Edmonton, Alta.

Education represents the foundation of everything we want and need to achieve both economically and socially. It is the knowledge behind a knowledge-based economy. It is the key to adding value to the goods and services we produce and to the improved productivity I believe we so desperately need. It is the path to employability, to a more highly-qualified workforce, and to a higher standard of living for all Albertans.

I think it took courage to restructure the educational system. The shocks were painful, the response was real and vocal. But the difficult choice was made nonetheless.

And, now, with the last budget, both K-to-12 and post-secondary education have received additional funding. While I consider that to be a wise choice, I also note dissent continues, most recently in a study that shows even with the funding increases, per-pupil spending will remain below the pre-cutback levels of 1993. Class sizes have also increased. And salaries for teachers and university faculty, adjusted for inflation, are today lower than they were seven years ago.



Eric Newell, Board of Governors chair.

If we consider a highly-skilled and talented workforce to comprise an important part of the Alberta Advantage, then at this stage in the game I must admit I find the numbers to be troubling. I am not at all sure that we are doing everything we can to prepare our people for the changing workplace of tomorrow.

At the University of Alberta, I think we have done an excellent job of coping during challenging times...But we've got some serious challenges to be worried about as well.

I said earlier the *Globe and Mail* had ranked Calgary the best place in Canada to work. It ranked behind Ottawa and tied with Toronto among the *best-paid* places to be. Edmonton was a little further down the list. But, clearly, our hard-working academic community is *not* included and is *not* enjoying such rewards...No big deal? I think it is. The quality of an education, I still believe, very much depends on the quality of instruction a student receives.

Every university in Canada and Alberta recently has lost a number of high-

quality staff, at least in part because they could find more competitive compensation and support for their research elsewhere—especially in the US. We're successful at attracting the younger bright lights but if we can't match the competition, we won't keep them and we'll be incapable of playing in the major leagues of emerging high-tech industries.

...Infrastructure is another challenge. It's hard, if not impossible, to keep up with rapid scientific and technological change in major research facilities that were constructed more than 25 years ago. Renewal expenditures are required in areas like biological, pharmaceutical and medical sciences. And new space is needed in emerging areas such as computing science and electrical engineering.

Almost all of the challenges relate to inadequate levels of core funding to Alberta's research universities. Per-student funding remains close to the bottom among Canadian provinces even though people development was at the top of the priority list at the '97 Growth Summit.

Now, I don't think you can just say that everybody's had a tough time and we have to learn to make do, that we only have to be innovative in our approach to

delivering education and to finding new sources of revenue to fund it. We are! I think instructors and administrators have done an incredible job demonstrating how versatile and innovative they can be. And I also think the business sector has found some pretty innovative and effective ways of helping to work towards a solution. I can certainly say Syncrude has and the Telus Centre is another excellent example.

...We need to build on the Alberta government's Campus Alberta initiative and optimize the existing delivery system. That also means some more infrastructure dollars. But it also means innovation. It means finding innovative ways of attracting and retaining top quality faculty, of developing improved and more varied learning techniques such as distance education and of attracting outstanding students...We are the ones who hold the potential of tomorrow's leaders in our hands and I have great confidence in our ability to do right by that generation. ■

Examining the stresses to the U of A workforce

VP Finance and Administration takes a closer look

By Lee Elliott

An insufficient core operating budget has put too much pressure on the people who work at the U of A, according to Glenn Harris, vice-president (finance and administration). And that pressure presents a threat to our ability to fulfill our vision as a university.

"I do hear numerous concerns about excessive work, stress, burnout and absence of backup," says Harris. The pressure is particularly great on administrative and support staff. "In percentage terms, the reductions in support staff during the cuts of the mid-90s were significantly greater than to teaching staff."



Glenn Harris, vice-president (finance and administration)

While budgets haven't allowed the university to replace positions, the volume of work continues to grow and is becoming more complex. "We need to work on this," says Harris. "It's not a back-burner issue."

Money is a must if we're to address the problem, he says, but it's not the only solution. "It's more than just replacing staff who were cut. The staff remaining need better tools—skills, information, equipment, the full gamut." The university also needs to change perspective, he says. "We need to start looking at the employee experience across campus in the way we look at the student experience...and focussing our attention on initiatives that speak directly to the workplace challenges people are confronting."

The problem is multifaceted, says Harris, and the solution will be too. Some initiatives, like the Administrative Systems

Renewal Program and major changes to the supply management system, are designed to free staff from processing paper so they can spend time on important priorities. In addition, a Workplace Wellness Initiative has been established. But more is needed.

"One of my priorities is to develop a much better understanding of how central administration, faculties and departments can work together, and to examine what we're doing centrally to demonstrate an understanding of their needs," he says. He also suggests a review of policies to ensure "they're more liberating than controlling."

But the greatest challenge may be in learning how to effectively manage change while maintaining a solid base. "What we're really looking at is having an organization that's able to thrive in a constant state of transition," says Harris. ■

U OF A STARTS BUILDING AGAIN

After nearly 15 years of very little growth, the University of Alberta is starting to build again.

MAJOR CAPITAL PROJECTS

ESTABLISHED PROJECTS

Telus Centre	\$17.85 million
Computing Science Building	\$12.30 million
Stollery Centre Expansion	\$1.6 million
Faculte Saint-Jean Residence and Cultural Centre	\$7.5 million

PENDING PROJECTS

Electrical and Computing Engineering Research Facility	\$18.2 to \$22.4 million
Engineering Teaching and Learning Centre	\$21.0 to \$25.0 million
Agriculture's Food for Health Initiative	\$3.8 million
Balmoral Lands Development	\$1.5 million
Practice Facility for 2001 World Track & Field Championships	\$12.0 million
Steam Turbine II for the Heating Plant	\$21.7 million
Students Residences	up to \$15.0 million

POSSIBLE PROJECTS

Pharmacy and Medical Facilities	up to \$75 million
---------------------------------	--------------------

Board briefs

By Lucianna Ciccocioppo

IN WITH THE NEW

New members of the board include: public member Ross Greaves, SU president Michael Chalk, student board representative Julian McNulty and GSA president Laura Bonnet. In addition, this was Anita Moore's last board meeting as the NASA representative. She served as a member for six years. Look for an upcoming feature in Folio on outgoing representative Anita Moore and incoming representative Lynda Achtem.

THREE NEW DEANS APPOINTED

New deans have been appointed to the Faculties of Arts, Nursing, and Pharmacy and Pharmaceutical Sciences for five-year terms.

Dr. Ken Norrie, chair of the economics department, has been appointed dean of arts effective July 1, 1999. Norrie's teaching and research interests are Canadian economic history, regional economics and economic policy. Norrie succeeds Dr. Patricia Clements, who has been dean since 1989.

Genevieve Gray will be dean of nursing on Jan. 1, 2000. A former dean of the Faculty of Nursing and Health Studies at the University of Western Sydney (UWS), New South Wales, Professor Gray was also former deputy vice-chancellor (planning) and an interim CEO at UWS. Her research interests are in educational and professional development of nurses and she has been involved in establishing a number of nursing education agreements between Flinders University, and universities and organizations in Western Samoa, Vietnam and Thailand. Professor Gray succeeds Dr. Marilyn Wood, dean for the past 12 years.

Dr. Franco Pasutto will take a seat in the dean's office for pharmacy and pharmaceutical sciences July 1, 1999. He is currently the faculty's associate dean of undergraduate education and an academic representative to the Board of Governors and the Senate. Pasutto succeeds Dr. Dick Moskalyk, dean since 1989.

Look for features on the new deans in upcoming issues of Folio.

TRACK AND FIELD SITE SUGGESTION APPROVED

The U of A Board of Governors approved a suggested site on provincial land immediately west of the Alberta School for the Deaf and on some university farmland for the 2001 World Track and Field Games. Public member, Ove Minsos, chair of the Board Finance and Property Committee said: "Any motion we make is merely one of an advisory nature to the province. The Games committee will have the ultimate decision."

"The recommendation is one we believe works extremely well as a legacy for the university and...for the Games. We understand what the implications are for the neighboring communities; we can work with the communities," said Vice-President (Finance and Administration) Glenn Harris. "We're aware this decision raises a whole host of other questions of south campus development and we're developing relationships that will include future consultations."

Dr. Walter Allegretto, academic member, questioned the long-term operating costs associated with the facility. Cost coverage by the Games committee is not a given, said Harris, and he estimated the yearly bill to be \$50,000.

Board Chair Eric Newell thanked the consultation efforts of Glenn Harris, Public Affairs Acting Director Lee Elliott, Media Relations Manager Sandra Halme and University Neighborhoods' Farm Alliance Chair Kathie Brett, "who managed to pull seven community leagues together."

These combined efforts will not be lost, added Harris. "Since the meetings, we have been trying to design a process of planning for the future."

HUMAN ECOLOGY NOW HAS PHD PROGRAM

Three students can now be bumped off the waiting list and admitted into the PhD program in human ecology, now that it's been approved by the board. Three others in a specially arranged program can also

continued on page 5

Gender-based discrimination: male refugees suffer too

By Dr. F. M. Christensen, professor emeritus, Department of Philosophy

Excerpted from background comments for a complaint to the Canadian Human Rights Commission against Citizenship and Immigration Canada, over recently announced plans that accelerated acceptance for refugees be restricted to "women and their children."

I will not argue the claim that, in much of the world, discrimination based on gender is primarily directed against women. There are, however, various forms of discrimination and the two sexes have traditionally been subject to different types. Broadly speaking, women have standardly been denied the degrees of personal freedom and power which men have had. Men, on the other hand, have been denied the levels of protection from harm which have been afforded women. Indeed, a primary male role has been that of protector—women and children being the ones defended. Throughout much of the world, harm or danger to a man is seen as appreciably less serious than equal harm or danger to a woman.

Examples abound. When terrorists seize hostages, they typically release the women and children, while holding the unarmed men in order to bargain with their lives. When authoritarian or despotic governments round up masses of citizens for detention or interrogation—or even for torture or mass execution—the victims are overwhelmingly male. Military conscription is almost everywhere applied only to males. While men—forced into the military on pain of social ostracism, prison, or worse—die horribly in battle, politicians on each side blame the other for the collat-

eral deaths of "innocent women and children." The right not to be killed is the most basic right of all; yet this right is routinely abrogated by nations in wartime, by law, only for men.

Such examples could be multiplied but these should suffice to make the following point. Refugee policies are, or should be, concerned with the most severe threats to life and wellbeing. And the evidence certainly does not show that women suffer those most severe threats far more than men do; if anything, men suffer them more. Thus, in treating women-refugee applicants as facing dangers because of their sex much more than men—notably with its fast-track program exclusively for "women at risk"—Citizenship and Immigration Canada is doing something morally indefensible. And it assuredly is in violation of the Human Rights Act.

GENDER BIAS ABOUT GENDER BIAS

What could be the source of such blatant discrimination? CIC's behavior is merely one manifestation of a much wider pattern in Canada and the world. I suggest the acceptance of harm to men is so firmly entrenched in social custom, and so firmly embedded in current ideology, many simply do not perceive harm to men as readily as they perceive that to women. People see more clearly that which they care about more deeply. In a profound irony and a perverse circularity, then, they announce that there just IS much more serious gender-specific harm inflicted on females. One has only to look at the mountain of current

literature on the subject, official and unofficial, for examples of this mentality.

Many decry—together rightly—the terroristic rape of women in places such as Bosnia, yet say nothing about the unarmed men tortured and killed there. (Even UN troops and adjoining countries have, while sheltering women and children, forced male refugees back to face death.) They point to the horror of women being killed for "unchaste" behaviour in certain Muslim countries, while ignoring the fact that the women's partners are standardly killed as well. They are appalled—as we should all be—by the genital mutilation practiced on little girls in Africa, but are stone silent about the fact that little boys (and usually not girls) are being forced to bear arms in the continent's guerrilla wars. They speak out against the forced sterilization of women but not against the forced sterilization of men. They express deep concern that women are being coerced into arranged marriages, ignoring the fact that such are equally coerced for the husbands.

Related examples are everywhere to be found: capital punishment—of special concern to Canada in considering refugee claims—is routinely condemned for the racist bias in its application; and yet the blatant gender bias goes unremarked by those who deal with such things.

TAKING A STAND AGAINST POPULAR DISCRIMINATION

Recent rhetorical battles in Canada have raged over whether the human rights laws and constitutional provisions are

being used to promote genuinely equal rights for all or only special rights for certain "designated groups." There is grave danger, in the present case, that the latter will occur. Because it is politically correct in Canada to discriminate against males, the Canadian Human Rights Commission will require moral courage to stand up for justice in this matter.

Sexist feminists and sexist chivalrists here at home will oppose it. "Alpha males" in the United Nations will oppose it: equal concern for male suffering threatens their ability to seize poor, young males and send them off to battle. But as Martin Luther King Jr. reminded us, injustice anywhere is a threat to justice everywhere. It has taken centuries to raise the world's consciousness of human equality to the present level. Are we to stop short of the goal? Have we learned so little about the fragility of justice that we think we can safely ignore unequal treatment of some?

Let the specific threats faced by each of the sexes, in various parts of the world, be honestly described in the publications of Citizenship and Immigration Canada and of other agencies dealing with refugees. Let it be publicized to the world that, where serious harm threatens, which their homeland cannot or will not assuage, all individuals can look to Canada for succor. Let each refugee-applicant's case be considered on its individual merits, without regard to stereotypes or prior opinions about societal roles or prior attitudes about whose life is more valuable. And then let the statistics on acceptance of refugees fall where they may. ■

Board Briefs continued from page 4

breathe a sigh of relief, says Dr. Janet Fast, associate professor.

The PhD program at the U of A is now one of two in Canada, the second being in family studies at the University of Guelph. The U of A's program is the only one in clothing and textiles studies.

BUSINESS OFFERS DIPLOMA IN CORPORATE FINANCE

The board approved the Faculty of Business' proposal to offer a diploma in corporate finance program.

The program provides experienced, working corporate accountants and finance professionals with an opportunity to upgrade their qualifications with access to advanced finance and management information systems training. The program is sponsored by the Institute of Chartered Accountants of Alberta and the Certified Management Accountants of Alberta.

Courses credited toward the diploma may be eligible for transfer credit to a U of A MBA program.

CAMPAIGN DOLLARS KEEPS FLOWING

To date, the University of Alberta Campaign has received cash, pledges and commitments totaling \$164,925,740, representing 114.02 per cent of the campaign goal of \$144,650,000.

While Vice-President (Research and External Affairs) Roger Smith was pleased with the announcement, he noted there are several areas that present ongoing challenges: arts, dentistry, Faculté Saint-Jean and School of Native Studies, for example. ■

Ants don't work as hard as you think and other young discoveries at the U of A

Canada-Wide Science Fair stirs up stimulating research

By Roger Armstrong

Budding young scientists from across Canada convened at the U of A this week, proudly standing by their booths displaying topics such as the effects of caffeine on short-term memory, the aerodynamics of a potato and traditional Inuit uses of caribou.

But for Grade 12 student Bryon Hughson, there is only one other passion in life equal to cross-country skiing: ants. Hughson, from Waterloo, Ont., has a science project about ant behavior in the 1999 Canada-Wide Science Fair, which was held in the Butterdome. "I've always been impressed about their efficiency," he says.

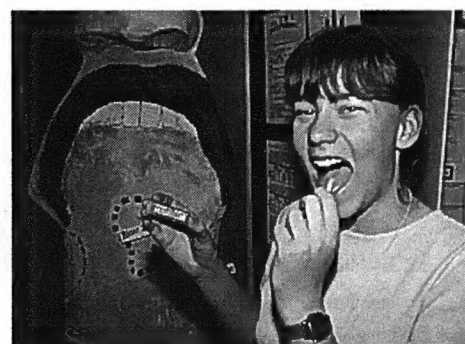
Hughson studied the roles of specific ants in a colony and how they adapted their roles to different circumstances. Contrary to popular perception, he found up to 80 per cent of ants are idle at any one time. And that's okay, apparently, by the queen. "Idleness is not that much of a vice in an ant colony," he says. Hughson plans to use his research as he enters university in the next couple of years.

Hughson was one of 500 participants, ranging from Grades 7 to 13, and more than 300 projects at the fair. The City of Edmonton landed the rights to hold the fair about five years ago. Host cities apply for the Canada-Wide Science Fair much like the Olympics bidding process—without the bribes—says event co-chair, Paul

Pinkus with a smile. "It is a great opportunity to show off the U of A," he says, adding he's looking to expand the recruitment aspect of the fair in the future.

"One of the most important recruitment tools is to get the prospective students, their parents and counsellors to visit the campus," says Associate Vice-President and Registrar Brian Silzer. The participants stayed in dorms and had tours of the campus and the city, and some made it to the mountains during their week-long visit.

The U of A supplied one-third of the more than 300 judges for the event. Dr. David Blades, Department of Secondary Education, says he was impressed with what he saw. Some of the projects make serious scientific contributions, says Blades. ■



Sheena Bell demonstrates how she tested taste buds. "This one is bitter."



Ursula Uta'Naaq (left) wearing traditional sunglasses made from caribou bone, and Sheri Iku:taq playing a game using caribou bone, show Inuit tradition in action.



Simon Bertrand (left) and Grégoire Bernèche use a laser beam and mirrors to demonstrate how satellite technology helps you use your cell phone.

1999 Rutherford Awards for Excellence in Undergraduate Teaching

An apple for the top teachers on campus, as selected by their students

Teacher of teachers

By Roger Armstrong

Dr. Olenka Bilash does not simply enter a room to teach. This ball of energy sweeps in with enthusiasm and gusto, capturing everybody's attention. Bilash instructs her students not only to be teachers of a second language, but also how to transcend cultural and linguistic barriers.

"I truly love my field; it is a part of me," says Bilash. The recent Rutherford Award winner started learning her craft at an early

prof, she is what I consider to be a mentor," says Kristin Laser, (BEd '98). In her first year of teaching, Laser is using many of the tools Bilash gave her to make an impression on her students. "She trained us to be second-language teachers, but also to become second-language teachers with the enthusiasm and motivation she instilled in us. That has really helped me."

"She's very positive, very energetic. Every time she'd come into class she'd be just a flurry of excitement," says former student Caroline Nixon, now teaching at Alberta College.

"I really listen to students and every year at the end of a course, I reflect very, very seriously on what went well and what didn't, and what needs to be changed as a result." Luckily for all those hundreds of students she will directly and indirectly touch, Bilash is able to pass on her infectious enthusiasm and love of teaching in addition to her knowledge.



Dr. Olenka Bilash: A flurry of excitement when entering a class.

age. "I am the oldest of four children, so I've been teaching forever," she says.

Bilash takes her passion for teaching very seriously. "When I first started teaching undergraduates, I decided every year I would learn something new because I had to keep being reminded of what it was like to not know something." She says she con-

tinues to learn from her students as she did from her teachers, professors, fellow graduate students and family.

Biology prof is always in a good mood to teach

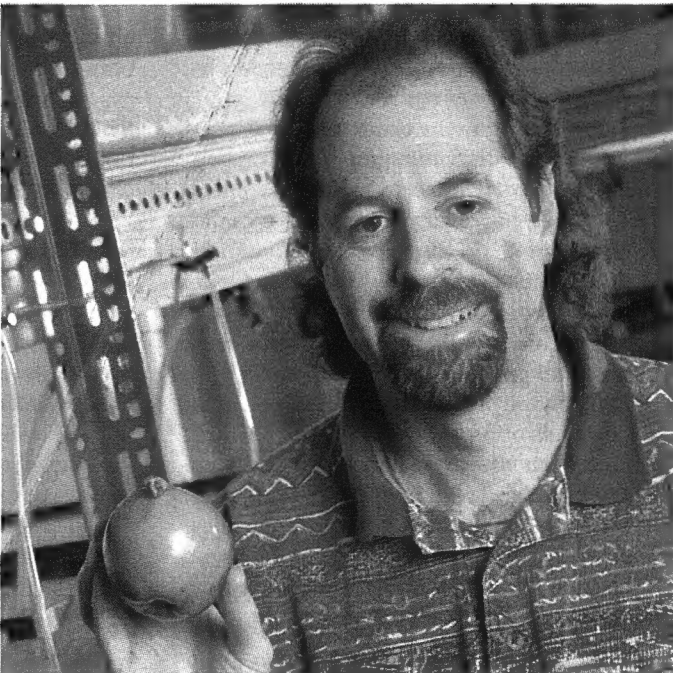
By Geoff McMaster

Dr. Jeff Goldberg has the gift every instructor covets: making the complex appear simple. Which is not to say teaching comes effortlessly to this biology instructor. As any dedicated instructor will tell you, it takes hard work on some days to exude the necessary enthusiasm.

"To be an effective teacher, you have to put on more personality than you probably actually have...there has to be a spark in your eye," says Goldberg. "Students have to get a sense that you're excited about what you're doing. You can't feel like that every day, but when I'm walking down the hall to the lecture, I psyche myself up."

"My whole philosophy or method is, I try to see what I'm doing from the students' eyes. I put myself behind their eyes and ears and try to be there."

Goldberg says he recognizes his subjects, animal neurophysiology and neurobiology, are "inherently difficult," combining concepts in physics, cell biology and chemistry. Because his students must have a solid understanding of voltage and current flow, he uses analogy and physical props, such as a walkman, to illustrate flow of current. On one occasion he evoked the scenario of a back-country hiking trip and the flow of water in a stream, to illustrate



Dr. Jeff Goldberg—alias "snail boy"—is captivated by the central nervous system of the *Helisoma trivolvis*, which he says is similar to that of humans.

how current travels through membranes and ion channels.

"We didn't need to spend much time studying for his course because he made it easy to understand in the lecture. If you paid attention in class, it basically made sense," says his former zoology student Niels Koehncke, now a resident in occupational medicine at the U of A. Since Koehncke wrote a full-year thesis project under Goldberg in addition to taking a regular course, he ought to know.

"What stood out for me was his enthusiasm. I was with him one-on-one and in class, so I knew how much time he put into his lectures. I could see him sitting at his computer a lot."

"He was a fun teacher just to watch, obviously very interested in his topic...He

What stood out for me

was his enthusiasm.

— Niels Koehncke, former student

The teaching wonder of AgFor

By Lucianna Ciccocioppo

One would think after receiving a 3M Fellowship—Canada's top teaching prize—a local award might be a little anticlimactic, to say the least. Not so with Dr. Anne Naeth, Faculty of Agriculture, Forestry and Home Economics.

"This is my university award. It doesn't compare to any other award," says an enthusiastic Naeth. "The Rutherford is still an honor. It's recognition that I'm still making a difference."

Remembering some 350 names for her first-year course is just one of the ways Naeth makes a difference. Roll call takes on a whole new meaning. Students help her out with short introductions and Naeth dutifully makes notes, taking down descriptions, hometowns and any other memory aid that comes to mind.

"It just makes such a difference in the classroom atmosphere if they know I like to get to know them as individuals," says the renewable resources associate professor. And what a difference she has made in the six years she's been here, picking up her faculty's Teaching Award in 1995 along the way.



Dr. Anne Naeth: The novelty of awards doesn't wear off. "This is my university award."

Not one to keep her teaching tips a secret, Naeth launched Teaching Innovation

Week in her faculty back in '93. Word of its success quickly spread beyond the U of A

It just makes such a

difference in the classroom

atmosphere if they know

I like to get to know them

as individuals.

— Dr. Anne Naeth, Faculty of Agriculture, Forestry and Home Economics

My whole philosophy or

method is, I try to see

what I'm doing from the

students' eyes. I put

myself behind their eyes

and ears and try to be

there.

— Dr. Jeff Goldberg, Faculty of Science

had the odd joke, and was always in a good mood. His door was always open—you could drop by any time to discuss problems or issues."

Goldberg also spearheaded a number of curriculum redesigns in his department. The revamping of animal physiology and developmental biology has doubled the number of students entering or inquiring about the program, now considered one of the best in North America.

"In these days of shrinking budgets and expanding class sizes, it is unfortunately rare to come across teachers who can captivate and excite students about learning to the point of influencing career choices and, ultimately, influencing lives," wrote Koehncke in a nomination letter for Goldberg's Rutherford Award. "Dr. Goldberg is just such an instructor." ■

Two thumbs up for making tough subjects make sense

By Lucianna Ciccocioppo

Dr. Heather Zwicker credits a high school career-counselling test with helping her choose her profession. You know the tests: they spit out computer-generated lists of career choices, everything from theatre usher to surgeon.

Zwicker's results? "Chair upholsterer," she recalls with a laugh. It's a good thing she took the test twice. The second time around said she should teach.

"Teaching is one of the most important things I do. When people ask me what I do, I say 'I teach.' 'Professor' is not very descriptive; it's almost, well, arrogant," says Zwicker.

Her students, however, find her anything but that. This award-winning professor is a mentor for many a U of A student—from across all faculties—and she's conscious of the role.

"It's important for students to see women in a position of authority."

But she doesn't dwell on the ivory tower image. "I try to present myself as a whole person and I remind them that thinking takes a long time. It takes several years before ideas start to make sense," she says.

It helps when one of the shingles on your door says 'undergraduate program

Turning students on to rocks

By Geoff McMaster

Dr. Thomas Chacko teaches the mysteries of "metamorphic petrology," or what happens to rocks when heated, put under pressure or subjected to chemical fluids. On the surface, this might not sound like the most stimulating of subjects but Chacko's students beg to differ.

"I can honestly say he was one of the very best teachers I had at the U of A," says Jennifer Unterschutz, now a graduate student in geology at the U of A. "He just has a way of bringing it down to your level. He takes a difficult subject and makes it interesting and contagious." She says several of her classmates decided to apply to graduate programs in geology during Chacko's third-year course.

For his part, Chacko says his approach to teaching comes down to trust. Especially at the first-year level, he says, it's important to break through the intimidation many students feel at university so they are motivated to succeed. "Once that bond of trust is established, they respond much better. They take things beyond 'this is too hard for me' to 'I can do this.'"

Says Chacko: "It's all part of this idea that they won't feel condescended to. That's the biggest hurdle, and once you can overcome that, it goes a long way to them succeeding in the course."

I can honestly say he

was one of the very

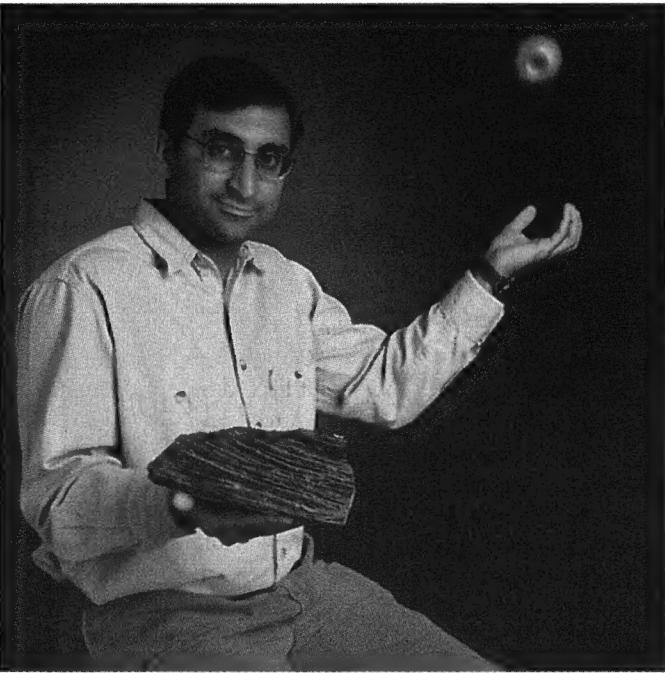
best teachers I had at

the U of A. He just has

a way of bringing it

down to your level.

— Jennifer Unterschutz, former student



Dr. Thomas Chacko: Breaking the intimidation barrier starting in year one.

When it comes to course material, Chacko says he breaks down what can be overwhelming for many into manageable "bite-size" pieces. "The individual parts are learnable and the last step is to put those individual parts together."

"I have a fairly traditional teaching style but what I try to do as much as possible is keep it very organized because I think that's the least we owe the students. Whether I'm exciting or not, I don't know," he says with characteristic modesty.

One of Chacko's most memorable teaching episodes was during a first-year field school. For some of the students, it was their first time ever studying rocks on site. Once the geology was explained to them, however, it opened up a whole new world.

"They were so enthused, so on fire, they were discussing this material after one o'clock in the morning. As a teacher, that was my most rewarding experience ever because you get instant feedback."

Chacko's reputation for teaching has gone beyond the field and the classroom. A faculty member in the Department of Earth and Atmospheric Sciences since 1991, he's the envy of many of his colleagues.

"Tom falls into the category of those natural teachers able to connect with students of all levels of ability and remove roadblocks to understanding with deceptively little effort," wrote Dr. Philippe Erdmer on behalf of Chacko. "He is a true model to all of us in the department who care deeply about teaching." ■

set standards. I help students with the standards but they have to meet them."

She's noted for her lengthy insightful comments on papers and for listening carefully to every idea students put forth in class.

"I find students have great ideas; they just don't know how to express them. I listen for the kernel and try to restate what they just said, to convert the inchoate idea into something that will work."

The key, says Zwicker, is finding different ways to teach "so that it resonates with people." It means sending students to West Edmonton Mall for an in-your-face examination of the "ideology of consumption," or tackling Derridean deconstruction with Lego blocks.

Lego blocks? "It was a concrete structure and it showed students how a structure presumes an inside and an outside," she says with a laugh.

This isn't the first award for Zwicker. She landed a Faculty of Arts Teaching Award last year. Only six years into her academic career, this teacher is obviously onto something. ■

I don't see students

as empty vessels to

be filled with vacuous

information.

— Dr. Heather Zwicker, Faculty of Arts



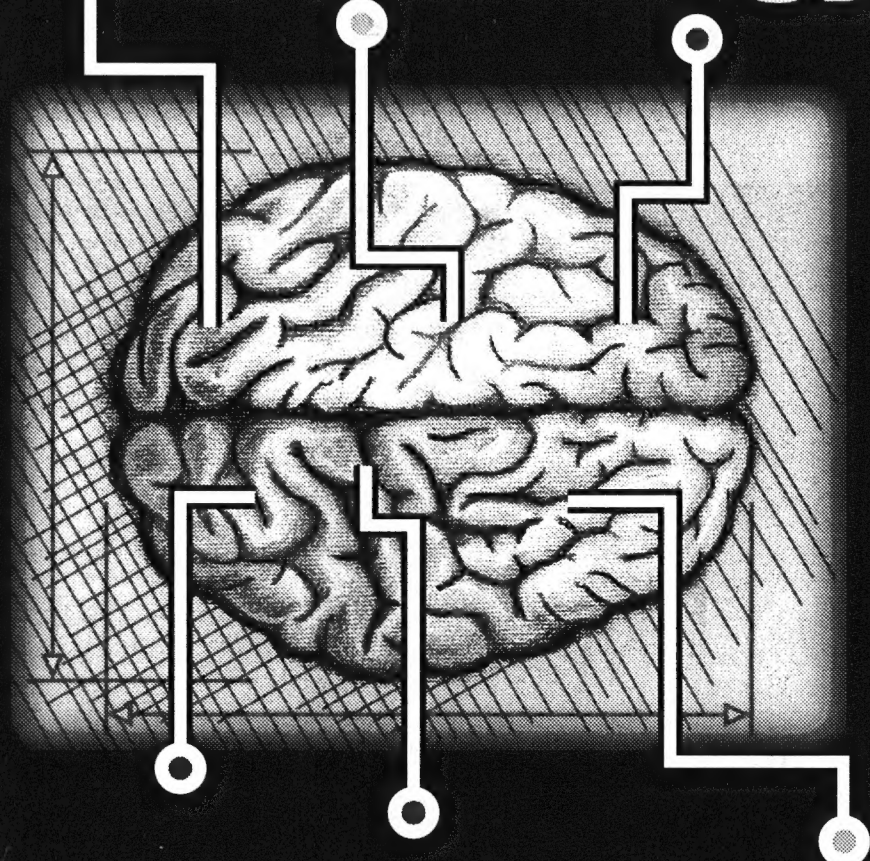
Dr. Heather Zwicker: Converting inchoate ideas into something workable.

adviser," a role she found challenging and rewarding. She says validating their anxieties helps students tackle Zwicker's tough

subject: post-colonial feminism.

"Yes, it's hard but it's manageable," she tells students. "It's intellectual labor. I have

knowledge through technology



Campus Computing Symposium '99

UNIVERSITY OF ALBERTA

June 22-25

Tory Lecture Theaters

Program

- Four Keynote Speakers: Leaders in Technology
- Five Symposium Streams: General Interest, Technology and Learning, U of A Enterprise, Research Computing, Technical Support
- Technology and Learning Open Houses
- Geek Nights at the PowerPlant

Registration Information

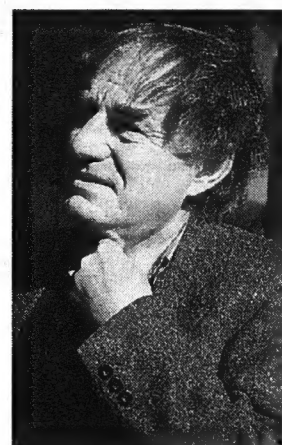
- On-Campus/Educational: \$75
- Off-Campus: \$140
- Students: \$35
- All attendees will receive a free Symposium T-shirt!

PROGRAM DETAILS AND ONLINE REGISTRATION:

<http://www.ualberta.ca/symposium>

In Memoriam

Marek Jablonski (1939–1999)



Renowned pianist and master-class presenter, Marek Jablonski.

The musical world and the University of Alberta mourn the passing of renowned pianist and pedagogue, Professor Marek Jablonski, who died May 8, 1999 after a courageous two-year battle with cancer.

Marek Jablonski was born in Krakow, Poland, Nov. 5, 1939 and began music studies at the age of six at the Krakow Conservatory. After emigrating to Edmonton, Jablonski studied with Gladys Egbert of Calgary and with Randolph Hokanson at the Banff School of Fine Arts. From 1957 to 1962, he studied piano with Rosina Lhevinne at the Juilliard School in New York.

During his years at Juilliard, he won first prize at the First National Jeunesses Musicales Piano Competition, the Dimitri Metropoulos Scholarship to study at the Aspen Institute, the first prize at the Kosciuszko Foundation's Chopin Competition and the Juilliard Concert Competition. Jablonski also had an opportunity to broadcast on WQXR's Musical Talent in Our Schools (Arthur Rubenstein, juror), won the first prize in the Kosciuszko Foundation's Paderewski Competition, the Joseph Lhevinne Memorial Scholarship, and the Mayor of Edmonton Award for exceptional achievement in the arts.

He then embarked on a career that had him performing between 50 and 100 con-

certs a year throughout Europe, North and South America. Conductors with whom he soloed include Mario Bernardi, Franz-Paul Decker, Arthur Feidler, Pierre Héty, Kiril Kondrashin, Zubin Mehta, Pierre Monteux and Walter Susskind. His recordings are found on the CBC and JMC labels and his career was celebrated in the 1971 National Film Board documentary titled "Jablonski."

In more recent years, Jablonski became renowned as a piano teacher and master-class presenter, appearing as such at universities and conservatories throughout Canada, the United States and Europe. His reputation was such that students have come to the University of Alberta from Romania, Poland, Japan, England, the United States and all across Canada to study with him. He came to the University of Alberta in 1992.

A memorial service celebrating his life took place in Convocation Hall. In lieu of flowers, contributions may be sent to the Canadian Federation of Music Teachers' Associations—Marek Jablonski Award, c/o 14111 52nd Avenue, Edmonton, Alberta T6H 0P9. This is a scholarship already begun in Marek Jablonski's name by the admiring music teachers of Canada.

Marek Jablonski is survived by his sister Martha Jablonski-Jones, his niece Kendra Jones and his loving companion, Erika Raum. ■

laurels

MARTHA COOK PIPER RESEARCH PRIZE

Dr. Wayne Grover, Department of Electrical and Computer Engineering (ECE), is the 1999 recipient of the Martha Cook Piper Research Prize.

Described as "one of the most innovative, independent and visionary researchers" in the Faculty of Engineering, Grover was also honored with an international award bestowed by the single largest engineering and research professional organization in the world—the W. R. G. Baker Prize Paper Award of the Institute of Electrical and Electronics Engineers (IEEE).

The Martha Cook Piper Research Prize recognizes Grover's ongoing impact and contributions to research, graduate teaching and leadership. His work in the area of survivable broadband transport networks has had a major impact in the international communications community.

More specifically, in 1996, one of Dr. Grover's research contributions resulted in a five-year, \$5.5 million licensing and sponsorship agreement with US-based MCI Telecommunications. In addition, another research project has developed into a uniquely capable set of network planning algorithms, called RingBuilder, which TRILabs is licensing.

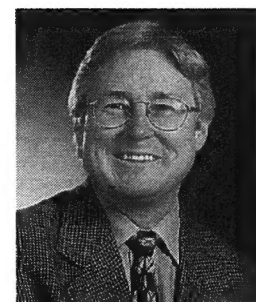
In 1998, Grover filed four patents, supervised seven graduate students, completed one MSc, renewed his NSERC grant with a 23 per cent increase, received Edmonton's Smart City Award for research

and technology and started three new research projects with external partners. He was also the faculty's McCalla professor for 1996-97, holds 19 issued patents, with a further five patents pending. Furthermore, Grover

serves as chief scientist of network systems research at TRILabs and is coordinator of the communications group in the ECE department at the U of A. For his upcoming leave, Grover has been invited by the University of Colorado at Boulder to be a visiting professor.

In testimony to his outstanding work and reputation for original, world-class research attained in less than 10 years since his PhD, Grover is a magnet for organizations such as IEEE, MCI, Nortel and others. He is currently working on a first-of-a-kind book on survivable networks, theory and design.

The Martha Cook Piper Research Prize recognizes a faculty member in the early career stage with a reputation for original research and promise for an outstanding future as a researcher. ■



Dr. Wayne Grover, 1999 Martha Cook Piper Research awardee.

events

EXHIBITIONS

FAB GALLERY MAY 18 - 30

"Last Scene," 1999 bachelor or fine arts graduating exhibition. Gallery hours: Tues to Fri 10 to 5, Sun 2-5 pm. 1-1 Fine Arts Building

FAB GALLERY MAY 17 - 29

"Damaged Goods Inventory," 1999 Print Portfolio. On display in the second-floor display case. Hours: Tues to Fri 10 to 5, Sun 2-5 pm. Fine Arts Building

FESTIVAL

FOOD AND U DAY - RAIN OR SHINE!

Free, family-oriented event designed to teach the value of agriculture, food, exercise, nutrition and the links between these in the promotion of overall health. Variety of hands-on, interactive displays and activities, including live animals, hay rides and making bannock, to show the link between food production, processing and human well-being. Learn and enjoy! May 29, 1999. University Farm, access 115 St. and 60 Ave. Information: Sharon Katzeff at x.0379 or skatzeff@afns.ualberta.ca

MEETINGS

CANADIAN SOCIETY FOR BRAIN, BEHAVIOUR AND COGNITIVE SCIENCE (BBCS)

Ninth annual meeting of the BBCS. Includes paper sessions, symposia, posters, distinguished lecture, high quality scientific interaction. BBCS is dedicated to the advancement of Canadian research in brain, behaviour and cognitive science. June 18 - 19. On campus. Details and registration information available online at web.psych.ualberta.ca/~bbcs99 or by e-mail alan.kingstone@ualberta.ca

SYMPOSIUM

CAMPUS COMPUTING SYMPOSIUM 1999

Knowledge through Technology
June 21 - 25

Every two years a computing symposium is held on campus to promote synergies among faculty and staff who use various technologies for instruction, technical support, administration, and research. Tory Lecture Theater complex, University of Alberta. Symposium 1999 will include five streams: General Interest, Technology and Learning, Research Computing - Tools for Discovery, U of A Enterprise, and Technical Support in Distributed Environment. Also features a number of keynote speakers, including UBC's Professor Murray Goldberg (the creative force behind the development of the WebCT online course authoring tools), and Clifford Lynch, Director of the Coalition for Networked Information (Washington, DC). Detail information and online registration: www.ualberta.ca/symposium

WORKSHOPS

WORKSHOP ON GOVERNMENT PRODUCTIVITY AND COMPETITIVENESS: WHAT ARE THE ISSUES?

June 1, Westin Hotel
The Centre for Performance Management, Western Centre for Economic Research, Faculty of Business and Canadian Employment Research Forum: This workshop is intended to provide a forum for dialogue, learning and meeting with some leading and internationally renowned speakers about the issues of assessing and measuring productivity and competitiveness in government. Cost \$125 + GST (Students \$35 + GST). Register: 492-2235 or fcentres@ualberta.ca

talks

Submit talks to Brenda Briggs by 9 a.m. one week prior to publication. Fax 492-2997 or e-mail at public.affairs@ualberta.ca.

BIOLOGICAL SCIENCES

June 7, 11:00 am
Special Seminar: Microbiology and Biotechnology. Richard Herrmann, "The Bacterium, *Mycoplasma pneumoniae*, as a model of a small self-replicating cell." Room M-149, Biological Sciences Building.

CENTRE FOR HEALTH PROMOTION STUDIES

June 11, 12:00 - 1:00 pm
Public Lecture: Irving Rootman, Director, Centre for Health Promotion, U of T, "Health Promotion on the Cusp of the New Millennium: Where to from Here?" East 121 Physical Education Building. For information call 492-4039.

DEPARTMENT OF MEDICAL GENETICS

May 25, 12:00 - 1:00 pm
Dr. Tal Kafri, Research Associate, Laboratory of Genetics, The Salk Institute for Biological Sciences, La Jolla, California, "Lentiviral Vectors: Difficulties and Hopes for Gene Therapy." For information call 492-0874. 207 HMRC.

DEPARTMENT OF PHYSIOLOGY

May 21, 3:30 pm
Seminar, Dr. Gary Lopaschuk, Departments of Pediatrics and Pharmacology, UofA, "Malonyl CoA control of fatty acid oxidation in the heart," introduced by Dr. David M. Olson. 207 HMRC.

PRAIRIE CENTRE OF EXCELLENCE FOR RESEARCH ON IMMIGRATION AND INTEGRATION

June 1, 12:00 - 1:00 pm
Brown Bag Seminar: Dr. Yasmeen Abu-Laban, Department of Political Science, University of Alberta, "Gender, Immigrants and Political Participation." Changing Together...A Centre for Immigrant Women. #103, 10010 - 107A Avenue.



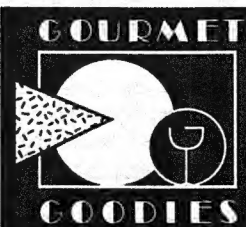
Cedar Park Inn

190 Newly Renovated Rooms
*Queen Beds*Business Class*Theme Rooms*

single/double

\$69/\$72

Café Méditerranée & Lounge
Indoor Pool, Sauna & Exercise Room
Complimentary transfer to the Edmonton International Airport & West Edmonton Mall
FOR RESERVATIONS CALL
780-434-7411 OR 800-661-9461
Website: www.AlbertaHotels.ab.ca/cedarparkinn/
5116 Calgary Trail North, Edmonton, AB T6L 1T4



Edmonton's Specialized Catering Company

• Breakfasts • Meetings • Dinner parties • Birthdays • Gift baskets
• Luncheons • Receptions • Anniversaries • Weddings • Gift certificates

CALL
438 1234
GOURMET GOODIES



Experience whitewater excitement,
waterfalls, hiking, hot springs,
fine dining and discovery.

Call: 1-888-436-6636

Email: wera@canoeadventure.com

Web: www.canoeadventure.com

Slide Presentation May 4

WESTERN CANADIAN RIVER ADVENTURES

3-5 Day Canoe Adventures on the Western Canada's Finest Rivers
Safe and Stable Voyageur Canoes - no experience required
An accompanying guest speaker will include a professional
naturalist/geologist or historian



Leading through Learning - An APO Conference

June 22 (evening)
and June 23 (all day)

- * Explore how to keep learning on track with today's rate of change
- * Discover "action learning"
- * Solve real problems in real time

The conference will start with a Learning Showcase and dinner with guest speaker Lois Hole.

Wednesday will be a full-day session facilitated by Marilyn Herasymowych at the Devonian Botanic Garden.

Watch for your invitation, and RSVP early! The first 50 registrants will be entered in a draw to have their conference fee remitted.

For more information, contact Lynn Burnett Murphy, 3-67 Assiniboia Hall, phone 492-6488, fax 492-8765.

ACADEMIC AND NON-ACADEMIC STAFF MEMBERS NEEDED

The terms of office of a number of academic and non-academic staff members serving on General Faculties Council (GFC) standing committees, and on committees to which GFC elects members, will expire on June 30, 1999. The GFC Nominating Committee is seeking academic and non-academic staff members to fill the following vacancies for three-year terms beginning July 1, 1999. More information regarding categories of staff and the terms of reference for the committees listed below can be found at <http://www.ualberta.ca/~unisecl/> or by telephoning Karen Schiltroth, Coordinator, GFC Nominating Committee, c/o University Secretariat (492-1937).

COMMITTEE

Academic Planning Committee (APC)

Meets at 2:00 pm on the 2nd and 4th Wednesdays (some Fridays) of the month.

VACANCIES

- 1 academic staff who is a member of GFC
- 2 academic staff-at-large
- 1 NASA member-at-large

Campus Law Review Committee (CLRC)

Meets at 9:30 am on the last Thursday of each month.

- 1 staff member (either academic or non-academic)

Facilities Development Committee (FDC)

Meets at 8:30 am on the 3rd Friday of each month.

- 1 academic staff* who is not from the Faculties of SC, MD or AG

Library Committee (LC)

Meets at 8:30 am on the 1st Thursday of each month.

- 1 academic staff

Teaching and Learning Committee (TLC)

Meets at 1:00 pm on the 2nd Tuesday of each month.

- 4 academic* staff

Undergraduate Awards and Scholarship Committee (UASC)

Meets at the call of the Chair, usually once in the month of October and the month of March.

- 1 academic* staff

Undergraduate Teaching Awards Committee (UTAC)

Meets at the call of the Chair, usually once in the month of October and the month of March.

- 1 academic staff* who is not from the Faculties of SC, ED, or NU)

Academic Appeals Committee (AAC)

Experience with student appeals is highly desirable. Meeting times vary throughout the year. Appeal hearings run throughout the evening and often over two days. Members must be available during the summer months.

- 1 academic staff*, generally chosen from the regular/alternate members, to serve on the panel of chairs
- 1 academic staff* to serve as a regular member
- 3 academic staff* to serve as alternate members

University Appeal Board (UAB)

Experience with student appeals is highly desirable. Meeting times vary throughout the year. Appeal hearings run throughout the evening and often over two days. Members must be available during the summer months.

- 1 academic staff* to serve on the panel of chairs

Henry Marshall Tory Chairs Selection Committee

Terms of the elected members end on completion of business. Committee work will begin upon the completion of the membership.

- 2 academic staff *

*Refers to full-time or part-time continuing; tenure or soft-tenure track; Board -AAS:UA (Faculty) agreement. All nominations, or expressions of interest, should be accompanied by a curriculum vitae or brief biographical sketch and directed to Ms K Schiltroth, Coordinator, GFC Nominating Committee, c/o University Secretariat, 2-5 University Hall (492-1937, karen.schiltroth@ualberta.ca) by 3:00 pm, Friday, May 28, 1999.

folio display ads work

Display advertisements: Camera-ready artwork is required to size, complete with halftones if necessary. Call 492-0444 for sizes, rates and other particulars.

Paul Lorieau's University Optical



"We value your eyes, and we'll prove it by offering the very best in optical care at everyday low prices."

433-5500

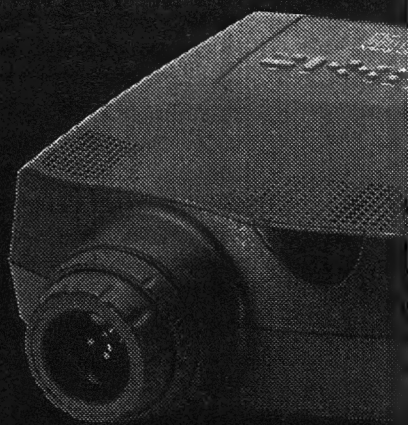
Conveniently located in College Plaza
8217 - 112 Street, Edmonton, AB T6G 2C8

AT YOUR NEXT COMPUTER PRESENTATION, MAKE SURE YOU'RE GIVING THEM THE RIGHT IMPRESSION...

Introducing the Impression A2™
multimedia projector from Proxima.

SVGA (800x600) resolution capability and **650 ANSI** lumens of brightness ensure that messages are delivered with impact and vitality. And at a mere **7.7 pounds**, you're efforts will be focused "on the task at hand" — not on lugging heavy equipment around.

Here's your chance to make an impression... Let Sharp's Audio-Visual and Proxima assist you in making sure it's the right one.



sharp's audio-visual ltd.



10552 - 106 Street
Edmonton, Alberta T5H 2X6
Telephone: (780) 426-7454
Fax: (780) 426-0724
Web: www.sharpsav.com

A RETIREMENT INCOME FUND OR AN ANNUITY? GET THE FACTS RIGHT HERE.

If you have questions about what to do with your RSP investment when you retire, we've got a few words of advice for you in our free Retirement Income Funds (RIFs) and Annuities brochure.

From the advantages of a self-directed RIF to protecting your nest egg from inflation, our new booklet tells you everything you need to know to make an informed decision.

This helpful information is yours absolutely free from ScotiaMcLeod. Just call the number below or complete the attached coupon and mail today.

CALL SYLVIA HAAK
SENIOR INVESTMENT ADVISOR
497-3227

2000 Canada Trust Tower
10104 - 103 Ave
Edmonton, Alberta
T5J 0H8

ScotiaMcLeod
Building Relationships for Life
Member CIPF

Please complete and mail

Please send me a copy of ScotiaMcLeod's Retirement Income Funds and Annuities brochure.

Name _____
Address _____
City _____ Prov. _____ Postal Code _____
Telephone (Day) _____ (Evening) _____
My ScotiaMcLeod Investment Executive is: **SYLVIA HAAK**

U of A Accommodation Guide

These facilities have been contracted with the University of Alberta to provide accommodations at the rates indicated. Each facility has unique features and offers something to suit everyone's taste.

To accommodate special guests to the University, reservations can be made using the Hotel Authorization Program (HAP) form which allows post-payment by the hosting department.

These rates are per night and are exclusive of convention conference rates which are established by conference/convention organizers. Rates valid to December 31, 1999 unless otherwise noted, taxes not included.



11145 - 87 Avenue
Edmonton, AB T6G 0Y1
Ph: (780) 439-6060
Fax: (780) 433-4410
1-800-661-6562
www://suitehotelgroup.com
info@campustower.com
Across the street from all University facilities.

single/double
\$69



8208 - 106 Street
Edmonton, AB T6E 6R9
Ph: (780) 434-6111
Fax: (780) 439-1195
1-888-515-3355
Complimentary continental breakfast, meeting space available, walking distance to the University.

single/double
\$89

For further information about booking these facilities, contact Joyce Assen at 492-5530, or visit our website: <http://www.financial.ualberta.ca/travel/>

positions

The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities. In accordance with Canadian Immigration requirements, preference will be given to Canadian citizens and permanent residents.

COMMUNICATIONS COORDINATOR CENTRE FOR HEALTH PROMOTION STUDIES

Applications are being sought for a new half-time position, Communications Coordinator, in the Centre for Health Promotion Studies which has two post-graduate programs (7 graduates, 74 students to date), numerous research programs/projects, and communication/networking strategies (e.g. website, newsletter).

Preference will be given to persons with a master's degree in a health or health-related discipline. The successful candidate should have experience in working with groups from multiple sectors, and in interpreting and communicating research results. This position requires strong written and verbal communication skills for a variety of audiences and prior work with interdisciplinary teams. Experience in preparing reports, compiling and collecting data/information, and writing briefing materials is also important.

The communications coordinator is responsible for coordinating the overall communication, networking and public relations of CHPS. The coordinator manages communication activities and markets information appropriately to different target audiences through research reports, policy-fact sheets, discussion papers, newsletters, brochures, press releases and other papers and documents.

Salary Range: \$18,000 - \$25,000 per annum.

Closing date for letter of application, resume and the names of three references is June 7, 1999.

Please send applications to:
Dr. Miriam Stewart, Director
Centre for Health Promotion Studies
5-10 University Extension Centre
8303 - 112 Street
Edmonton, AB T6G 2T4
Fax: 780-492-9579

CENTRE COORDINATOR CENTRE FOR HEALTH PROMOTION STUDIES

Applications are now being sought for a full-time Centre Coordinator in the Centre for Health Promotion Studies which has two post-graduate programs (7 graduates, 74 students to date), numerous research programs/projects, and communication/networking strategies (e.g. Web site, newsletter).

The Centre coordinator should have a master's degree in a health or health-related discipline and post-master's experience in health-related research, graduate education, and administration. The successful candidate should have experience in proposal writing, report preparation, and handling complex budgets. The coordinator should also possess strong organizational and group facilitation skills, excellent communication skills, and an excellent record of strategic and operational planning, program design and evaluation, and staff supervision. Experience in innovative management and financial sustainability strategies is desirable.

Major duties include coordinating the Centre's activities, maintaining and enhancing a supportive research environment, communicating the Centre's mandates and contributions, facilitating involvement of community groups and connections among Centre associates and stakeholders in the practice and policy arena, and coordinating the development of annual and other reports. The coordinator will monitor and report finances of the Centre, and prepare financial forecasts and budget reports as required by funders. The coordinator will work with the director, the graduate program coordinators, research coordinator, communications coordinator, academic staff and associates to achieve the centre's strategic goals in education, research and communications.

This is an Administrative & Professional Officer position with a salary range of \$36,000 - \$52,000 (under review).

Closing date for letter of application, resume and the names of three references is June 7, 1999.

Please send applications to:
Dr. Miriam Stewart, Director
Centre for Health Promotion Studies
5-10 University Extension Centre
8303 - 112 Street
Edmonton, AB T6G 2T4
Fax: 780-492-9579

Seventh Annual E. Garner King Memorial Lecture

*"Can the Brain
Regenerate Following
Injury?"*

Dr. Albert J. Aguayo
McGill University, Montreal

**Thursday, May 27, 1999
@ 5:00 pm**

Bernard Snell Hall
Walter Mackenzie Health
Sciences Centre
8440 - 112 Street
Edmonton, Alberta

folio classifieds work

\$0.50 per word

Deadline: one week
prior to publication date

Find whatever you want to buy
or sell in the Folio classifieds

**call 492-0436
for more
information**

Final
Winner

ESO

Edmonton
Symphony
Orchestra



Folio would like to thank the Edmonton Symphony Orchestra for its generous donation of concert tickets throughout the season. Thanks also to the many Folio readers who participated in the draws.

Congratulation to our last and final winner, Michelle Lock, in the Department of Electrical and Computer Engineering!

Ads are charged at \$0.50 per word. Minimum charge: \$3.00. All advertisements must be paid for in full by cash or cheque at the time of their submission. Bookings may be made by fax or mail provided payment is received by mail prior to the deadline date. Pre-paid accounts can be set up for frequent advertisers. Please call 492-2325 for more information.

ACCOMMODATIONS FOR RENT

CALL NOW! To buy, sell, lease a condominium. \$49,000 to \$450,000. Please ask for Connie Kennedy, condo specialist/consultant, 25 years expertise. Re/Max, 482-6766, 488-4000.

HAWAII - WAIKIKI - deluxe one bedroom condo. Ocean view. Short term rentals. 452-9696.

VICTORIA VACATION HOME - day/week/month, ocean walks and views. Phone (613) 841-3503, Ottawa, e-mail: mcmillan.j@sympatico.ca

TERWILLEGAR AREA - FURNISHED HOME, two storey, three bedroom home, attractive woodbeam sunroom. Additional basement guest room, three bathrooms. Comfortably furnished. Double garage, 15 minutes from University (direct bus service). August 1999 - June 2000. \$1250.00, 434-6605.

UNIVERSITY AREA - Deluxe two bedroom, two bathroom, upper level house. Security monitored. Fireplace, appliances, garage. Annual lease. July 1st, \$795.00, shared utilities. Non-smokers. References. 433-6730.

FULLY FURNISHED EXECUTIVE SUITE CONDO - Gorgeous panoramic view of river valley and downtown. Two bedrooms, two full baths, five appliances, secured parking, 465-9715.

NEWLY FINISHED, clean, bright, 2+1 bedroom, hardwood floor, finished basement, double garage. No pets. \$850/month, July 1 possession, 437-2643.

MOST LUXURIOUS DUPLEX, 2,600'. Walking distance to U of A, 7719-111 Street. No pets, non-smokers. Computer room, four bedrooms, fireplace, vacuum cleaner system, master bedroom jacuzzi, three showers. Huge kitchen, Jenn-Air, microwave. Large dining room, outside deck. Front balcony, air circulation system, many extras. Single garage. Villa Slavica, July 1st, 434-0509.

THE GARNEAU - 2000 sq ft executive condo on two levels. Hardwood floors, fully furnished. May 15 - July 31, 1999, \$1800/month. Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

RIVERBEND - FALCONER HEIGHTS, two storey executive, four bedrooms, unfinished basement. Den and family room on main floor. July 1, 1999. Lease. Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

LE MARCHAND TOWER - exquisite executive two bedroom condo, 2000 sq ft, fully furnished, \$1600/month. July 1, 1999-June 30, 2000. Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

DOWNTOWN FULLY FURNISHED with sundries, condo, one bedroom. Excellent view of river valley, airconditioned, security. Call Janet, (780) 441-6441, jennfra@compusmart.ab.ca

ATTENTION PROFESSIONALS AND PROFESSORS: turn key, renovated one bedroom, 117 Street, Jasper Avenue. Hang your clothes and start living. \$887 with lease, \$975 monthly. Call Janet, (780) 441-6441, jennfra@compusmart.ab.ca

FURNISHED/UNFURNISHED - two bedroom condominium, top corner suite, southwest, river valley view, double jacuzzi, balcony, upgraded, 15 minutes from University, 482-7990.

ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES - knowledgeable, trustworthy, realtor with Edmonton references. Will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. 250-383-7100, Lois Dutton, Duttons & Co. Ltd. #101 - 364 Moss Street, Victoria, B.C. V8V 4N1

TWO STOREY 1980 EXECUTIVE HOME in Riverbend. Stucco and red tile exterior. Quality construction with oak spiral staircase. Masonry fireplaces. Double drywalling, decks, established garden. Call owner, 435-6722.

UNIVERSITY/HOSPITAL - very quiet, bright condo, 111 & 80 Avenue. Two bedrooms, two parking stalls underground. \$114,800. Chris Lewis, Sutton Group, 438-2500.

EXCLUSIVE NEW LISTING - backing onto parkland and ravine. "Old Riverbend" 2900 sq ft, four bedroom, two storey. Super extra 22' x 26' room with view of river valley and downtown. Private 90 x 132' lot, \$295,000. Liz Crockford, Re/Max, 438-7000.

CHOICE THREE BEDROOM SANCTUARY, walk UofA, 1600', two subterranean car stalls, excellent revenue property. \$157,500. Richard, 436-3598.

ACCOMMODATIONS WANTED

HOUSESITTER, mature, non-smoking grad. Pets welcome, housesitting references, letter of agreement. Mark, 455-4351.

HOUSESITTER AVAILABLE September 1: mature, non-smoking, responsible graduate student. Pets welcome. Excellent references. Maureen, 439-8605.

WILL HOUSE-SIT, September 1, 1999 to April 30, 2000. Academic couple, no pets, no children, non-smokers. Please call 413-7800 (Dr. N.C. Cooper)

HOUSESITTER, NON-SMOKER - references, Neil, 417-0261.

PHYSICIAN AND FAMILY require property in Windsor Park/Belgravia. Will sign lease June 1, 1999. Call Janet (780) 441-6441, jennfra@compusmart.ab.ca

PROFESSIONAL COUPLE with well-behaved and trained dog require nice home to rent in Windsor Park, Belgravia, McKernan, Garneau, Strathcona, Parkallen areas. Well qualified, non-smokers, lease. Call Janet (780) 441-6441, jennfra@compusmart.ab.ca

RETIRED ACADEMIC AND WIFE (non-smokers) seeking rental house in University area from August 1, 436-1756.

GOODS FOR SALE

CASH PAID for quality books. The Edmonton Book Store, 433-1781.

DOCTORAL GOWN, hood and cap for Northwestern University, \$150, 435-4762.

SERVICES

TECH VERBATIM EDITING - APA, Chicago; medical terminology; on campus. Donna Maskell, 922-6263.

HOME CLEANING - Hardworking, bonded staff. Reasonable rates. Able Maids, 433-9697.

BACK BASICS Remedial Massage Therapy. Supplementary Health Care coverage. 436-8059.

DAVID RICHARDS CARPENTRY. Certified journeyman, NAIT. Complete interior/exterior, residential, commercial renovations including plumbing/electrical. No job too big/small. References available. 436-6363.

RESIDENTIAL CONTRACTORS, additions, renovations, new homes. Innovation Plus Developments Limited, 434-0923.

HOUSECLEANING/GARDENING - expert, reliable housecleaner, gardener (teacher), will maintain your home/yard. Weekly, bi-weekly. Excellent references. 436-0894.

CUSTOM FURNISHINGS AVAILABLE for executives and professionals requiring a home ready to go. For details call us at Western Relocation Services Ltd., 780-434-4629, jennfra@compusmart.ab.ca

scheduled for classrooms, public circulation areas and patient treatment areas.

Please help by removing any pop cans in student lounges and offices to avoid attracting flies, other insects and rodents and to prevent possible odors and stains. If new or extra garbage and/or wet garbage stations are required on a daily schedule, please notify Building Services.

Building Superintendents:

Boris Knos, 6523, Boris.Knos@ualberta.ca;

Gary Hilsen, 4608, Gary.Hilsen@ualberta.ca;

Les Mash, 5179, Les.Mash@ualberta.ca;

Bob Carlgren, 3209, Bob.Carlgren@ualberta.ca;

Art Clarke, 4723, Art.Clarke@ualberta.ca

RETIREMENT RECEPTION FOR DR. KEITH BRIGGS

The Department of Agricultural, Food & Nutritional Science will hold a retirement reception to honor Dr. Keith Briggs, professor of Cereal Breeding and Agronomy, June 3 from 4:00 p.m. to 7:00 p.m., Papaschase Room, Faculty Club. For further information and to RSVP, please contact Dana McCallum at 492-3239; Fax: 492-4265; e-mail: skatzeff@afns.ualberta.ca, by May 28.



100, 10585 - 111 Street
Edmonton, Alberta, T5H 3E8
Telephone (403) 429-6779
Facsimile (403) 424-0004
Email ron_graham@msn.com

PLANNING YOUR RETIREMENT?

WILL YOU HAVE ADEQUATE FINANCIAL RESOURCES?

At Ron Graham & Associates Ltd. we help you clarify and achieve your financial goals. We provide professional financial planning and advice without product sales.

Please call for initial consultation without cost or obligation.

Ron Graham, C.A., R.F.P., CFP

Catherine Fletcher, Dentist BA(Hon), M.Sc., D.D.S. Mai Diab, Specialist in Pediatric Dentistry D.D.S., M.Sc.

#980, 8215-112 Street
College Plaza 3
Edmonton, Alberta T6G 2C8

439-2266

email: cathy@fletcherdentist.ab.ca
www.fletcherDentist.ab.ca

Our Hours are:

Monday, Tuesday, Thursday

8:00 am - 5:00 pm

Wednesday 11:00 am - 7:00 pm

Friday by appointment



Colette M. Lehodey

Registered Acupuncturist and Physical Therapist
Cert. M.Ac., CAFCI, R.Ac., B. Sc.P.T., MCPA

The Five Elements Health Centre in McKernan
11208 - 76 Avenue, Edmonton, Alberta T6G 0K1

Tel: (403) 435-9933
Fax: (403) 430-9229

BY APPOINTMENT

Medical Acupuncture · Traditional Chinese Medicine
· Qi Gong · Physical Therapy

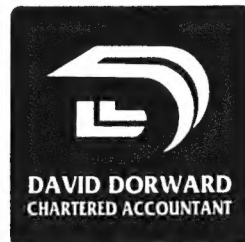
For Your Complementary Health Care Needs

PERSONAL TAX

It's not what you earn,
.... it's what you keep!

SMALL BUSINESSES

- We'll help you sort out your accounting.
- We'll minimize your taxes.
- Timely service - Clear fee structure
- Initial consultation ... No charge!



DAVID DORWARD
Chartered Accountant
Ph: 413-7211 Fax: 413-7226

Strathcona Professional Centre
#304 10328-81 Avenue
Edmonton, Alberta. T6E 1X2
dd@compusmart.ab.ca

notices

Please send notices attention Folio 400 Athabasca Hall, University of Alberta, T6G 2E8 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

1999 AGRI-BUSINESS SCHOLARSHIP

This is the ninth year for the Monsanto Canada Inc. \$50,000 Agri-Business Scholarship Program which offers ten scholarships of \$1,000 each in Alberta, Saskatchewan, Manitoba, Ontario and Quebec. This scholarship is for Canadian high school students from a family farm entering the first year of post-secondary education in the areas of agriculture, business or biotechnology at a Canadian educational institution. To qualify, interested applicants must have demonstrated academic excellence, leadership capabilities and a keen interest in their local communities. Applications must be post-marked by August 16, 1999. Further information and application forms may be obtained by calling (905) 814-2499.

NOTIFY BUILDING SERVICES ABOUT VACANT OFFICES AND DEPARTMENTAL SPACE

Building Services asks to be notified when academic/support staff are absent from their offices for two weeks or more duration and when classroom/teaching spaces will not be used over the summer. This will allow more productive use of valuable cleaning time. Annual spring cleaning has been

Go First! Class!

Organizing an event is a formidable task for today's busy professionals. The University of Alberta Conference Centre can assist you with everything from booking meeting space, to providing registration services, to planning the menu for your banquet or reception. If you haven't met with us lately, stop by for a tour. You'll be pleasantly surprised at our first class facilities and services. For more info contact:

Conference Centre

Department of Housing and Food Services
University of Alberta, 44 Lister Hall
Edmonton, Alberta T6G 2H6
Tel: 403-492-4281
Fax: 403-492-7032
e-mail: conference.services@ualberta.ca
http://www.hfs.ualberta.ca/



Housing and Food Services
University of Alberta



Lister Hall

- Extensively renovated main function rooms
- Six meeting rooms accommodating up to 280 people
- Internet ready facilities
- Breakfast, lunch or dinner meetings
- Examination and seminar rooms
- State of the art audiovisual equipment

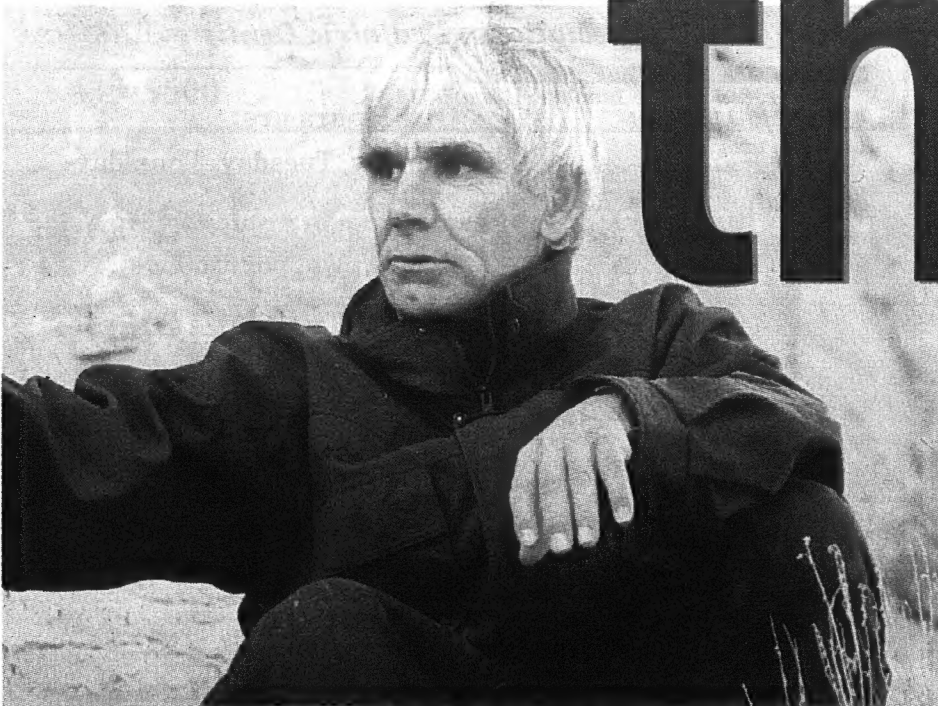
Alumni House

- Beautifully renovated mansion overlooking the river valley
- Four renovated boardrooms accommodating 10 to 30 people each
- Unforgettable elegance for meetings, retreats, receptions and weddings

Theatres and Classrooms

- State of the art lecture theatres featuring internet access and satellite capabilities
- Numerous classrooms to meet all your needs

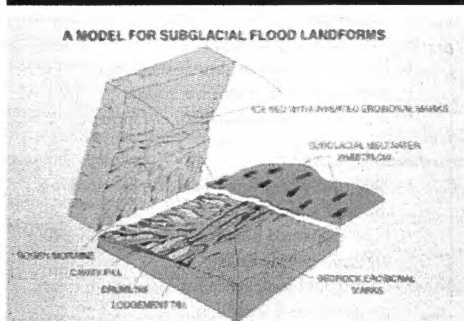
Dr. Shaw studies surface bedrock erosional marks and sediment deposits for evidence of glaciation.



By Barbara Every

– Dr. John Shaw

A 3D block diagram of a glacier. The top surface is labeled 'Ice'. Below it, a layer is labeled 'Ice' and 'Water flow' with arrows indicating movement. The bottom layer is labeled 'Unit 1' and 'Bedrock'.



Spindle drumlin, Bish Lake area, Northern Saskatchewan.

folio **back** *page*